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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
NORTH ATLANTIC OCEAN, 26 MAY 1975

K. J. Hill, et al

Teledyne Geotech

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
North Atlantic Ocean, 26 May 1975**

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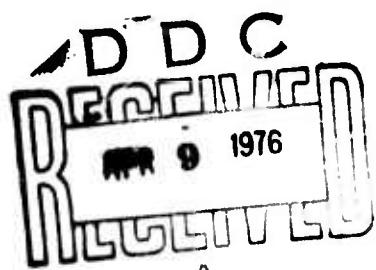
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SDCS EVENT REPORT NO. 59

North Atlantic Ocean, 26 May 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	09:18:06.1	09:12:53	36 N	018 W	6.3	N/A
LASA	09:22:23.3	09:11:34	32.2N	016.7W	6.8	N/A
DE		09:11:50.9	35.8N	017.6W	N/A	8.0

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

09:11:54.5 36.8N 018.1W 6.4 N/A

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. Horizontal SP channels at HN-ME and RK-ON were rotated. Signal clipping prevented rotation of the SP horizontal channels at WH2YK, FN-WV and CPSO.

Long-period signals were recorded at all SDCS stations and NORSAR. Signal clipping prevented rotation of horizontal LP channels at all SDCS stations. Validity of the NORSAR long-period vertical beam is uncertain and horizontal channels were not included because of program recovery problems. ALPA and LASA long-period array data were not recoverable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SEC'S	ELEVATION METERS	INSTRUMENTATION SHORT - PERIOD LONG - PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	566	18300
WH2YK	White Horse, Yukon	60 41 41.0 N 154 58 02.0 W	855	18300

Note: The orientation of the radial instruments at FN-WV is assumed to be $316^\circ + 5^\circ$ based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 26 MAY 75
 09:11:34.0 32.199N 16.700W 0FM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST		
NAC	09 18 06.1	-0.0	0.1	30.2	28.1
HN-ME	09 19 13.0	-0.1	0.0	38.0	300.3
FN-WV	09 20 33.4	0.4	0.4	47.8	291.7
CFC	09 21 14.7	-0.3	-0.3	53.4	290.3
RK-CN*	09 22 14.5	55.5 *	54.4 *	54.0	310.6
IAC	09 22 23.3	-0.1	-0.2	63.2	309.6
WH2YK	09 23 07.3	0.1	-0.1	70.1	332.2

67 HERRIN TRAVEI TIME TABLES

ORIGIN	IAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
09:11:58.0	36.795N	18.142W	23. CAIC	0.2	5	6
09:11:54.5	36.780N	18.145W	0. REST	0.2	4	6

CAIC	REST
1 . 1	1 . 1
2 . 0	2 . 0
2 0 . 0 0	2 0 . 0 0
· · · · ·	· · · · ·
0 0 . 0 0	0 0 . 0 0
0 . 0	0 . 0
0 : 0	0 : 0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CCNF..LEVEL, SDV= 1.11
 MAJOR 223.3KM. MINOR 28.1KM. AZ= 157 AREA= 19740 SQ.KM. FEST

* RK-ON NOT USED IN HYPOCENTER DETERMINATION DUE TO
 APPROXIMATE TIME CORRECTION OF 27 MINUTES 30 SECONDS.

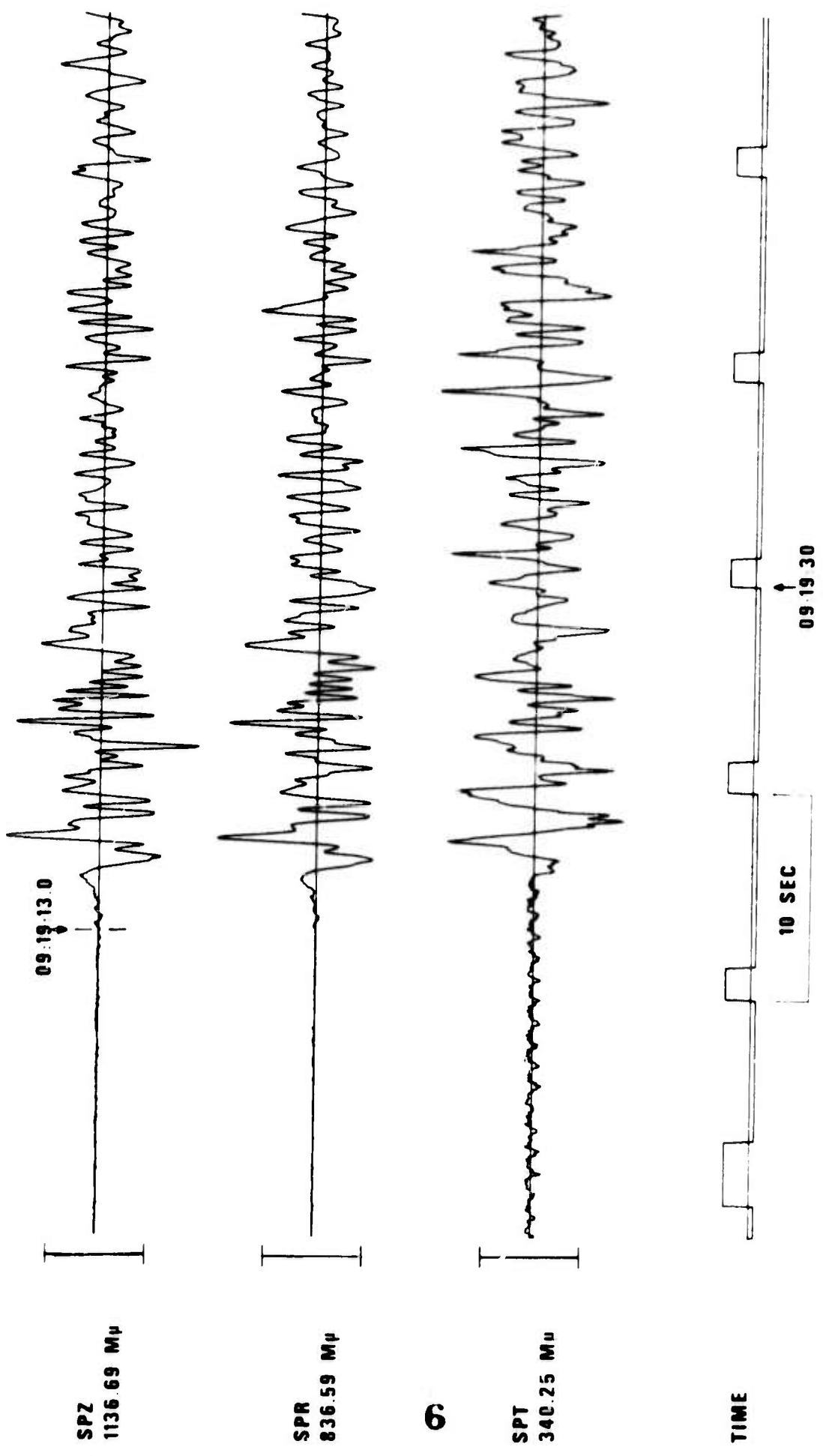
DATA SUMMARY

INPUT FOR EVENT 26 MAY 75
 09:11:34.0 32.199N 16.700W 0KM.

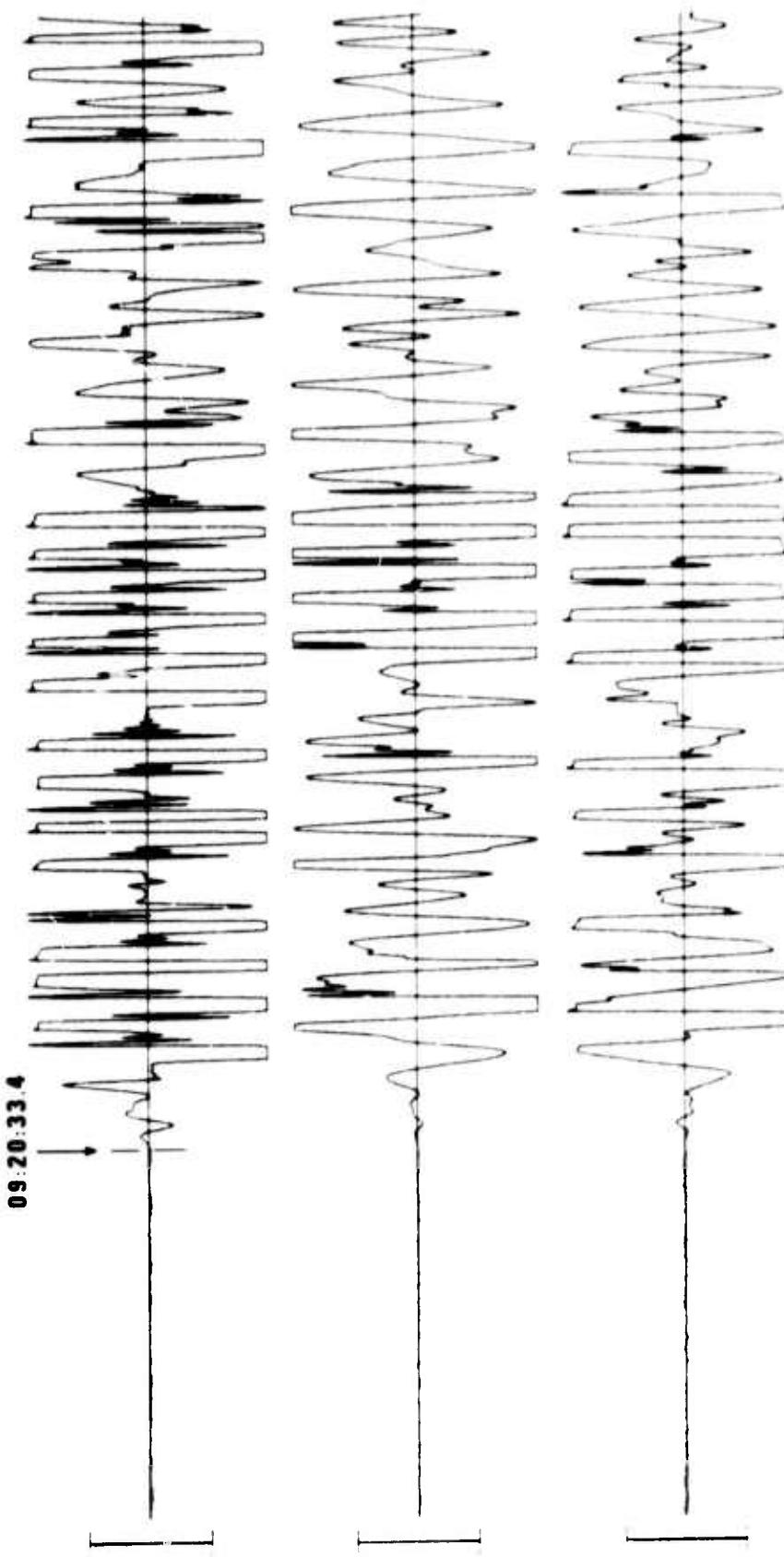
STA.	PHASE	ARRIVAL				MAGNITUDE			
		TIME	INST	PER	A/T	MB	MS	DIP	DIST
NAC	EP	09 18 06.1	AE	0.8	696.	6.17		30.2	
NN-ME	EP	09 19 13.0	SPZ	0.9	1310.	6.32		38.0	
FN-WV	EP	09 20 33.4	SPZ	1.7	9999.				
CFO	EP	09 21 14.7	SPZ	1.7	9999.				
RK-CN*	EP	09 22 14.5	SPZ	1.9	4250.	7.13		54.0	
IAC	EP	09 22 23.3	AE	1.1	1341.	6.75		63.2	
WH2YK	EP	09 23 07.3	SPZ	0.6	9999.				
ORIGIN		LAT.	ICNG.	DEPTH (KM)	MAG	SDV	STA		
09:11:58.0		36.795N	18.142W	23. CAIC	6.40	0.28	3		
09:11:54.5		36.780N	18.145W	0. REST	6.41	0.30	3		

* RK-ON NOT USED IN HYPOCENTER DETERMINATION DUE TO APPROXIMATE TIME CORRECTION OF 27 MINUTES 30 SECONDS.

HN-ME 26 MAY 75



FN-WV 26 MAY 75



SPZ
460.17 Mu

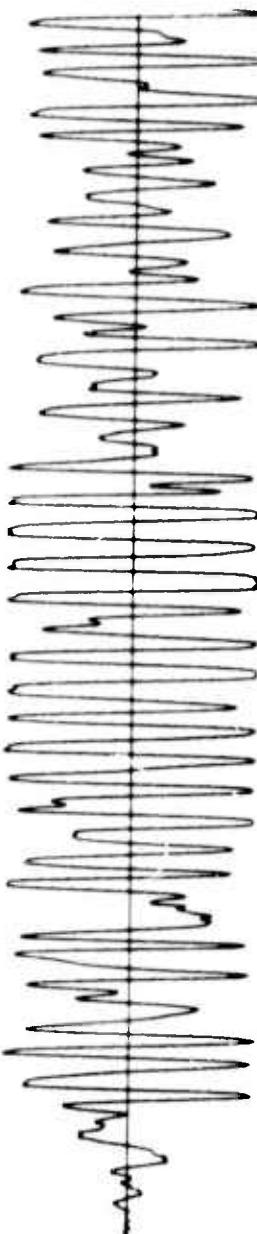
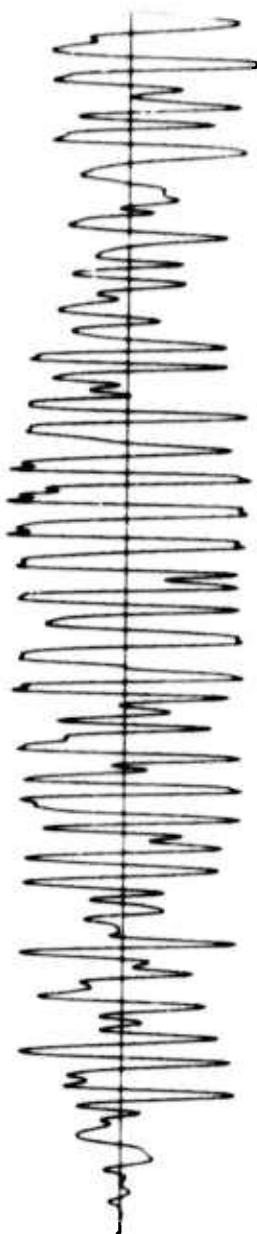
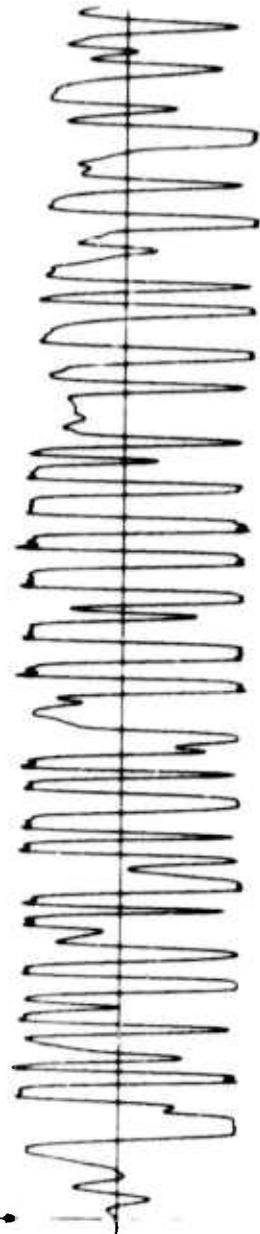
SPR
471.799 Mu

SPR'
599.83 Mu

CPSO 26 MAY 75

09:21:14.7

SPZ
940.20 M μ



∞

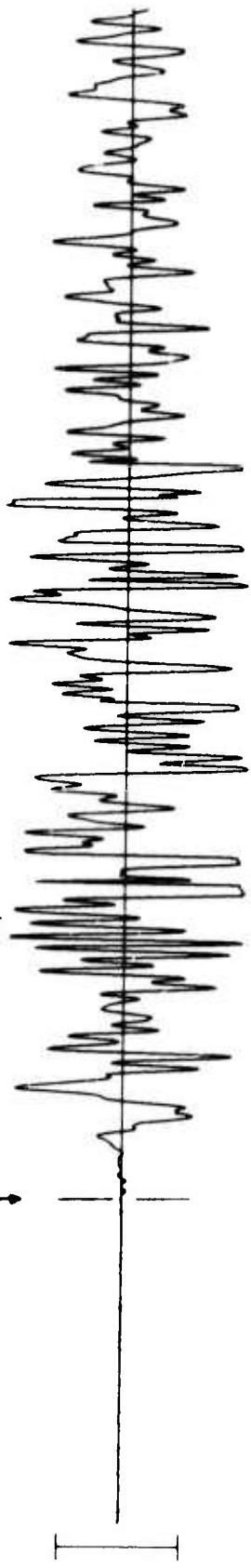
SPN
455.35 M μ

SPE
416.26 M μ



RK-ON 26 MAY 75

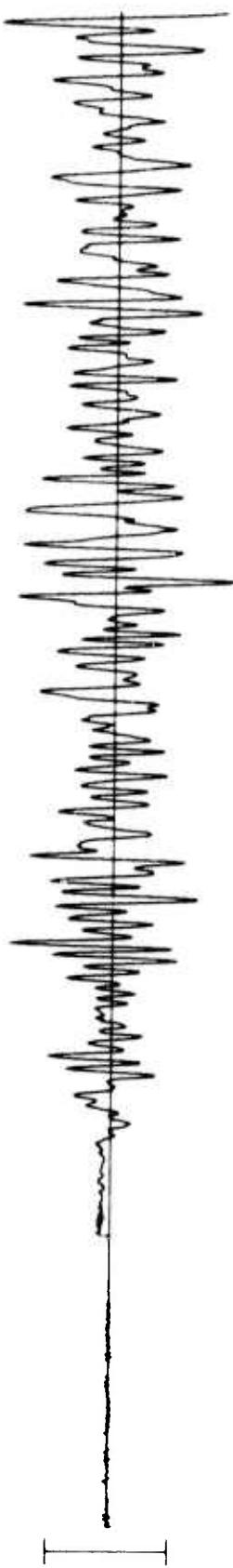
08:54:44.5' (UNCORRECTED)



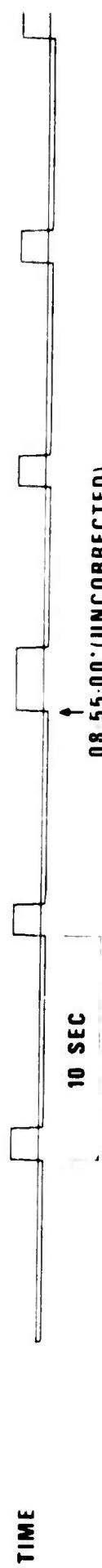
SPZ
931.45 M μ



SPR
762.47 M μ



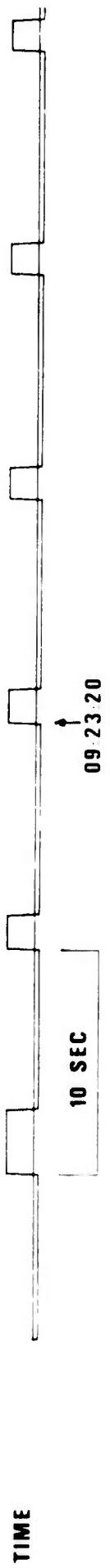
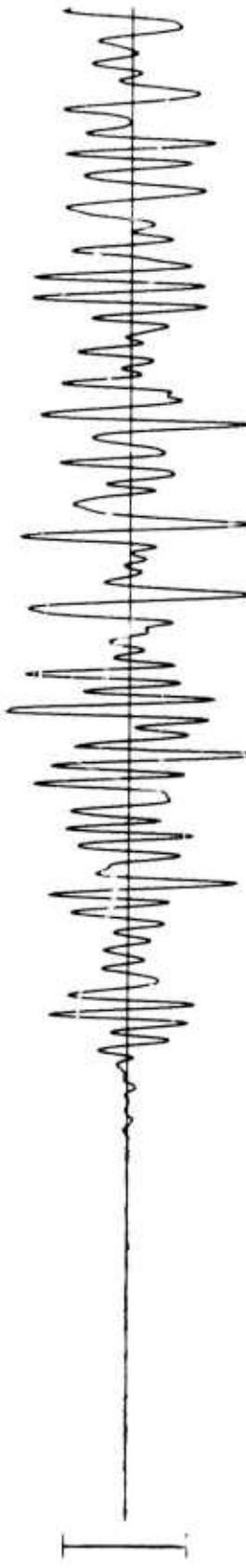
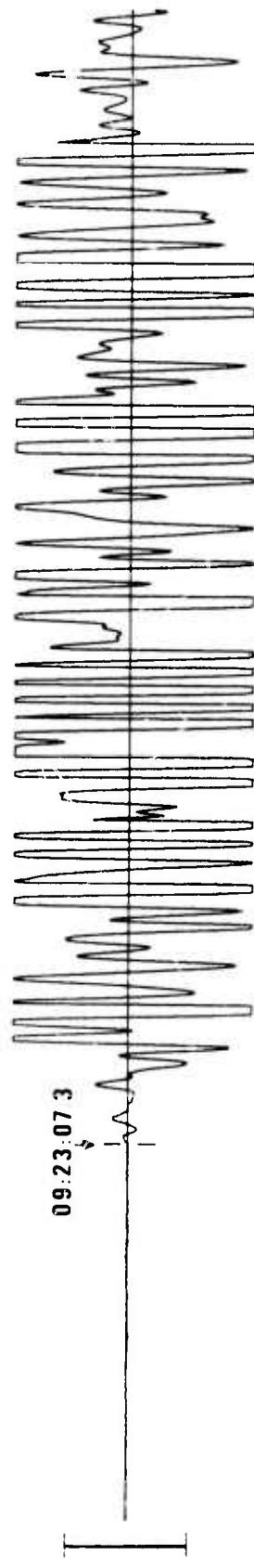
SPT
396.78 M μ



*APPROXIMATE TIME CORRECTION +27 MINUTES 30 SECONDS

08 55:00' (UNCORRECTED)

WH2YK 26 MAY 75



NORSAR EVENT FILE

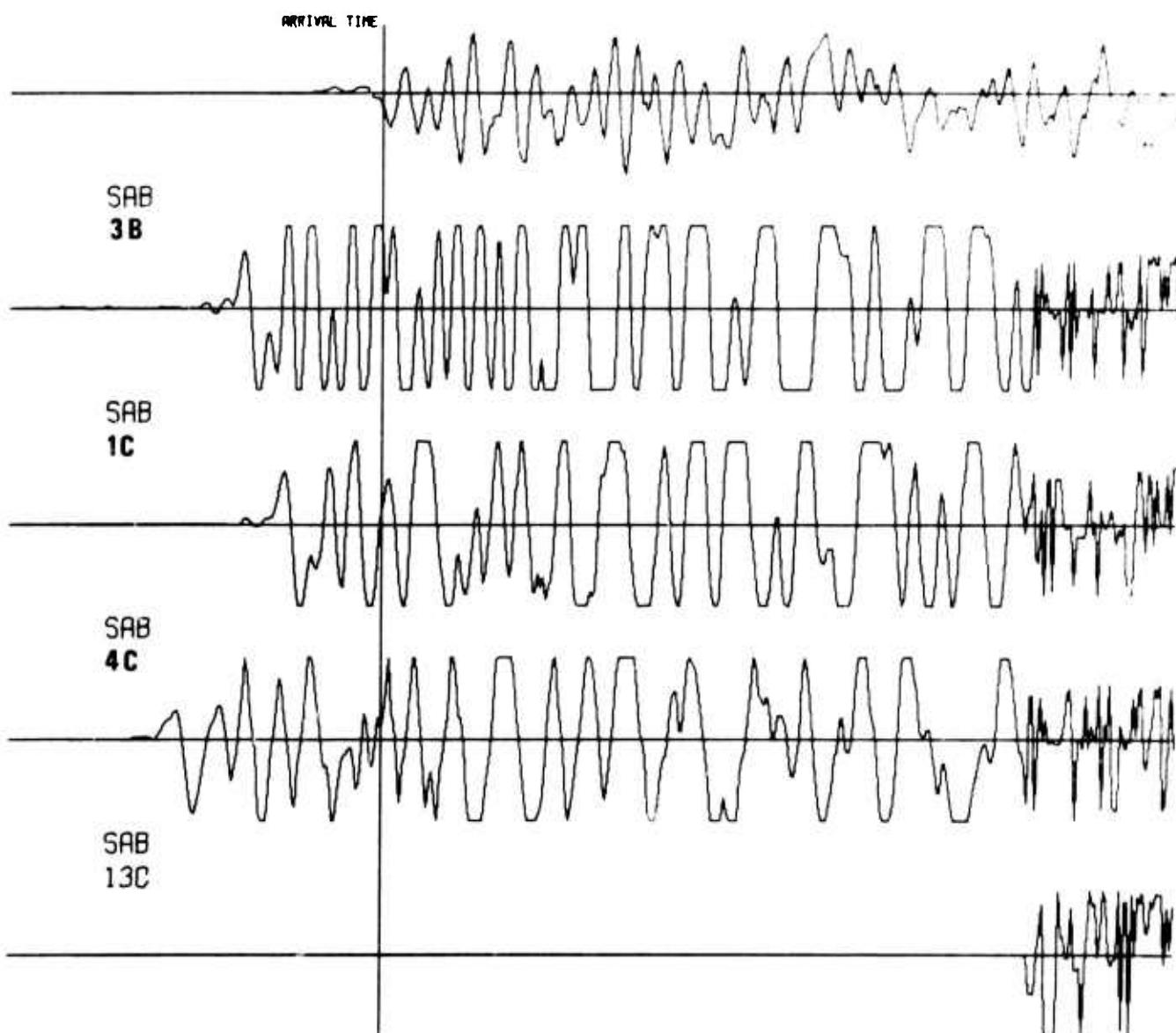
1975 MAY 26

EPX NO. 68210 ARR. 9.18.7.1 48.2N 32.8W 5.3MB 33KM

DIST = 27.7 AZI = 262.7 AMP = 37.2 FER = 0.8

|-----+ = 5 SECONDS

AB



LASA

1. 26 MAY 1975

2 9 11 45 32.5N 19.2W 330 C 6.2 393 MADEIRA ISLANDS REGION
3 9 22 23.3 LAO P 493.6 1.5 17.1 65.3 68.3

EPX 9271

BP-B 0.6-2.0 Hz

ABN 34

09.22.13.3

AB 2420

FAB 1700

WAB 1800

PAB1 1950

PAB2 1680

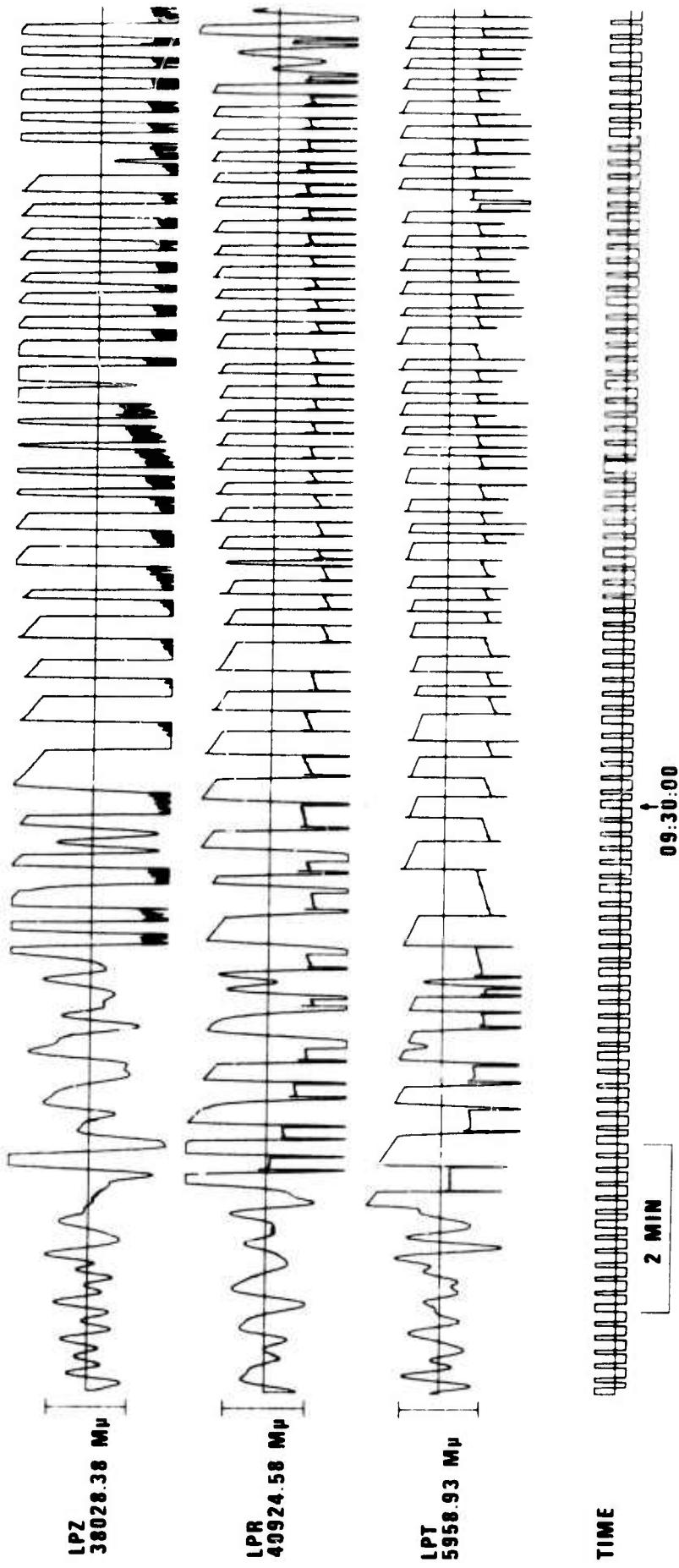
PAB3 1560

PAB4 1660

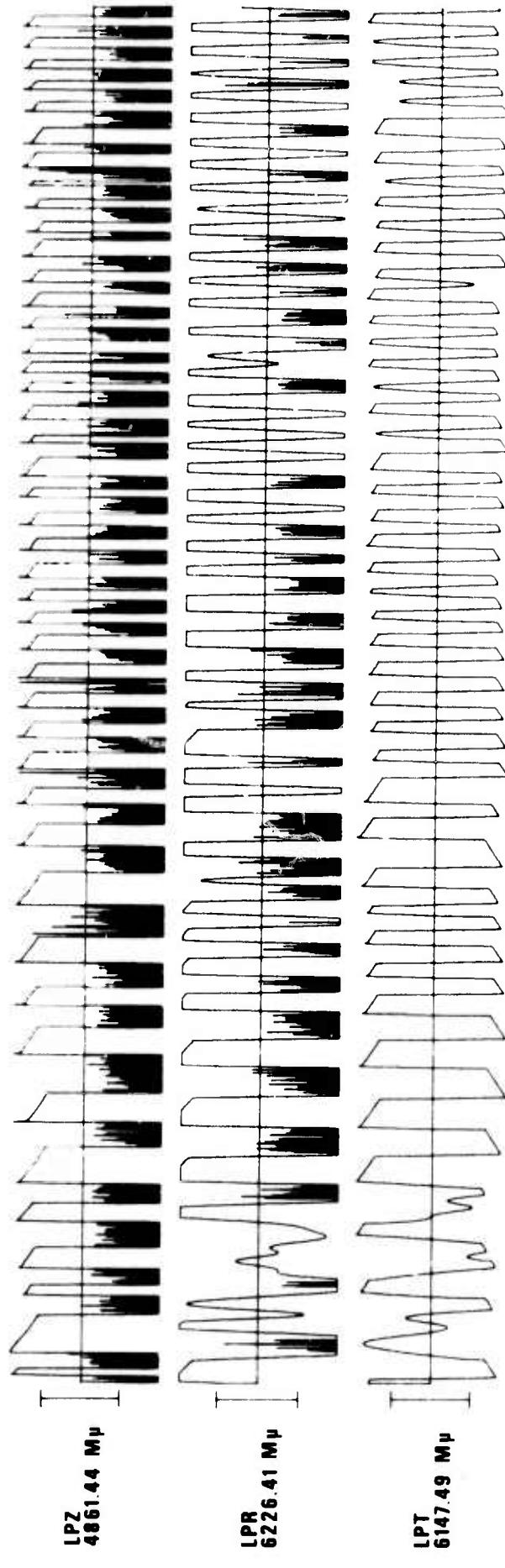
10 SEC

12

HN-ME 26 MAY 75



FN-WV 26 MAY 75



TIME

09:35:00

2 MIN

CPSO 26 MAY 75

LPT
6676.67 MHz

LPR
20207.00 MHz

LPT
2350.54 MHz

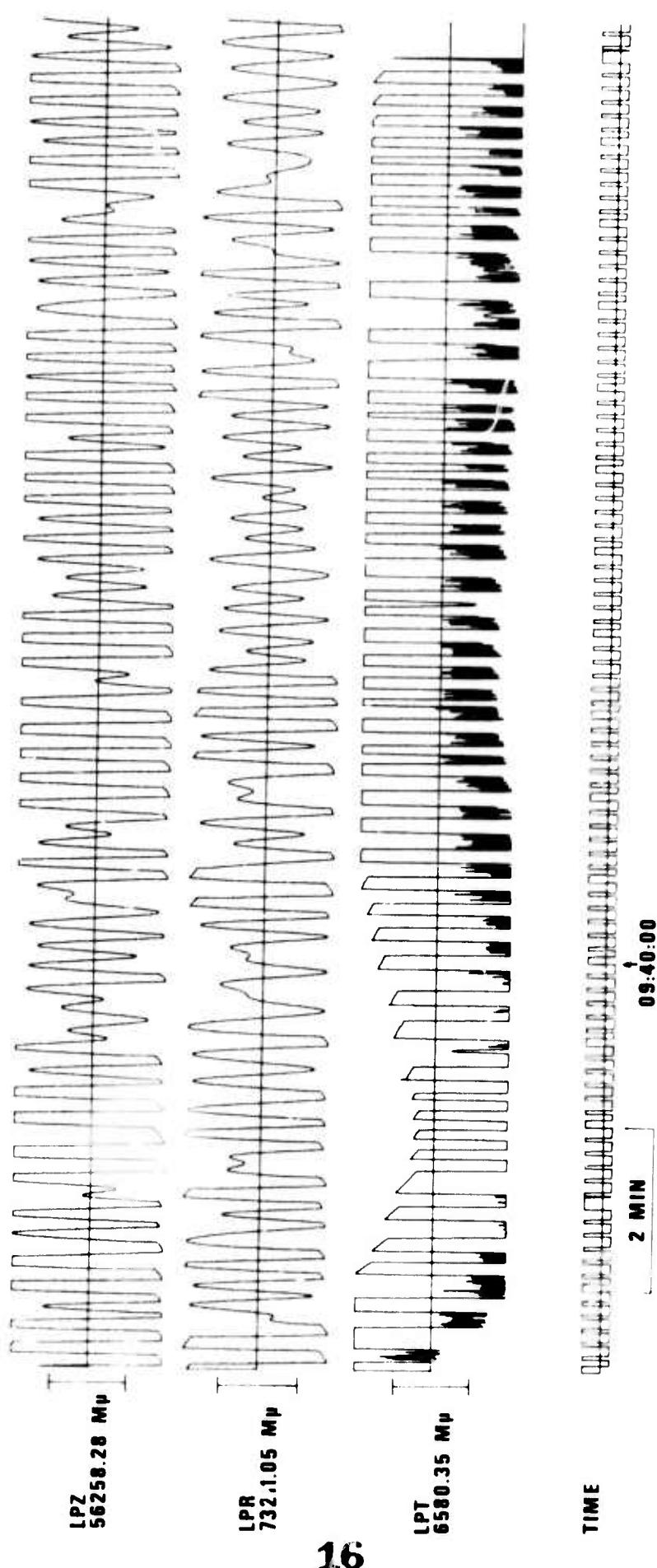
15

TIME

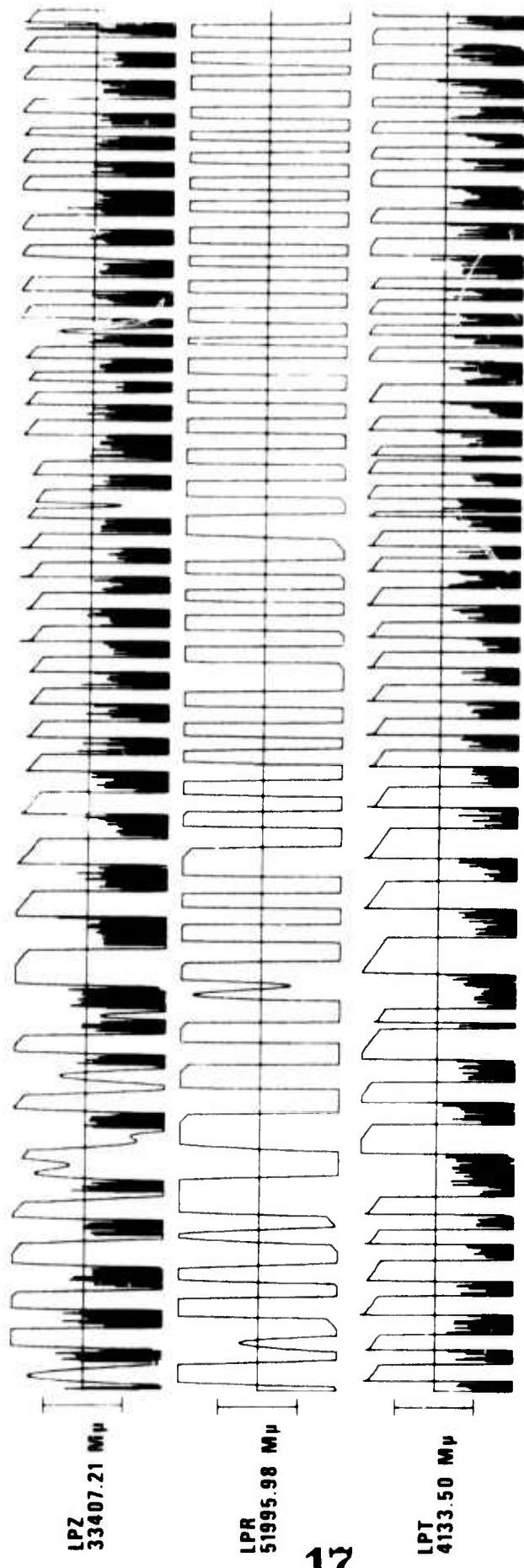
2 MIN

09:37:00

RK-ON 26 MAY 75



WH2YK 26 MAY 75



TIME
09:50:00

NORSAR LONG PERIOD VERTICAL BEAM 26 MAY 75

